

# United States Patent and Trademark Office

cen

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/528,941	03/23/2005	Royce Lowis	GB 020162	6578	
65913 NXP, B.V.	7590 07/09/200	7	EXAM	INER	
NXP INTELL	ECTUAL PROPERTY	WOJCIECHOWICZ,	WOJCIECHOWICZ, EDWARD JOSEPH		
M/S41-SJ 1109 MCKAY	' DRIVE		ART UNIT	PAPER NUMBER	
SAN JOSE, C		2815			
	•				
			NOTIFICATION DATE	DELIVERY MODE	
		•	07/09/2007	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

		1	Application No.	lication No. Applicant(s)				
			10/528,941	LOWIS	LOWIS			
Office Action Summary			xaminer	Art Unit				
			Edward Wojciechowicz	2815		:		
Period fo	The MAILING DATE of this communic or Reply	ation appea	rs on the cover sheet w	ith the correspon	dence ad	idress		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN INSIDE OF THE MAN INSIDE	AILING DAT f 37 CFR 1.136(i nication. utory period will a rill, by statute, ca	E OF THIS COMMUNI a). In no event, however, may a apply and will expire SIX (6) MOI use the application to become A	CATION.  reply be timely filed  NTHS from the mailing of BANDONED (35 U.S.C.)	date of this co	,		
Status								
1)	Responsive to communication(s) filed	Lon						
2a)□			ction is non-final					
3)								
٧,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	o unuoi zn	parto quajro, 1000 0.1	. 11, 100 0.0. 2	. 10.			
· _		nlication						
	Claim(s) <u>1-10</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.							
	Claim(s) <u>1-10</u> is/are rejected.							
	☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement.							
	•	on and/or e	lection requirement.					
Applicati	on Papers							
9)[	The specification is objected to by the	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to	by the Exan	niner. Note the attache	d Office Action o	r form P1	ΓΟ-152.		
Priority ι	ınder 35 U.S.C. § 119							
-	Acknowledgment is made of a claim fo			§ 119(a)-(d) or (f)	١.			
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* 0		•	` ''	rossived				
	See the attached detailed Office action	ioi a list of		received.				
Attachmen	t(s)							
	e of References Cited (PTO-892)		4) Interview	Summary (PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PT	O-948)	Paper No(	o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:								
			-, 🗀	<del>_</del>				

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The exact structure of the claimed invention is not clearly defined. In claim 1, the last paragraph is not clearly understood. It appears that the claim language requires that there by both some edge cells and some inner sense cells in each group of sense cells, whereby the ratio of edge to inner cells varies from one group to another. However, the precise distinction between these two types of cells is vague. Are all of the sense cells essentially identical in structure? Or are there any differences between these types of cells in addition to their relative location?

Looking at FIGS. 2 and 3, how is it structurally determined where one group of sense cells begins and ends? How are the different groups of sense cells separated from adjacent groups?

With respect to the dependent claims, the various drive, compensation and reference circuits recited are not clearly defined as to their structure of how their overall structure is integrated with the sense cells. For example, the recitation in claim 8, that an undefined drive circuit happens to have a FET whose drain is connected to a control terminal, fails to clearly define the structure and circuit configuration of the overall device.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are further rejected, insofar as understood, under 35 U.S.C. 103(a) as being unpatentable over Yun et al (6,433,386). Insofar as the inventive structure is understood, the reference to Yun appears to teach the inventive structure with groups of sense cells that have different ratios of edge to inner cells. See, for example, the FIG. 6 embodiment of Yun where it appears that each different group of cells (SCA31), (SCA32) and (SCA33) would have different ratios of edge cells to inner cells, as claimed.

In addition, the Yun structure, which also makes use of MOS devices, would, of necessity, include the well known support layers, terminals and drive circuitry, as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Wojciechowicz Primary Examiner Art Unit 2815